# AFFINITY-BASED CLUSTERING OF VECTORS FOR PARTITIONING THE COLUMNS OF A MATRIX

## Abstract of the Disclosure

A method and computer program product for partitioning the columns of a matrix $A$. The method includes providing the matrix $A$ in a memory device of a computer system. The matrix $A$ has $n$ columns and $m$ rows, wherein $n$ is an integer of at least 3, and wherein $m$ is an integer of at least 1. The method further includes executing an algorithm by a processor of the computer system. Executing the algorithm includes partitioning the $n$ columns of the matrix $A$ into a closed group of $p$ clusters, wherein $p$ is a positive integer of at least 2 and less than $n$, wherein the partitioning includes an affinity-based merging of clusters of the matrix $A$, and wherein each cluster is a collection of one or more columns of $A$.